

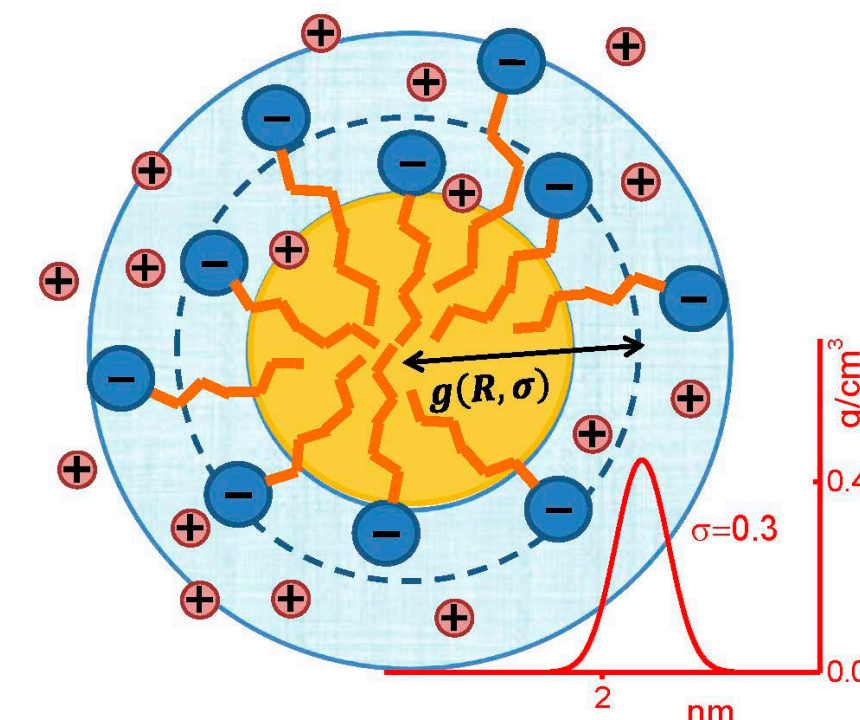
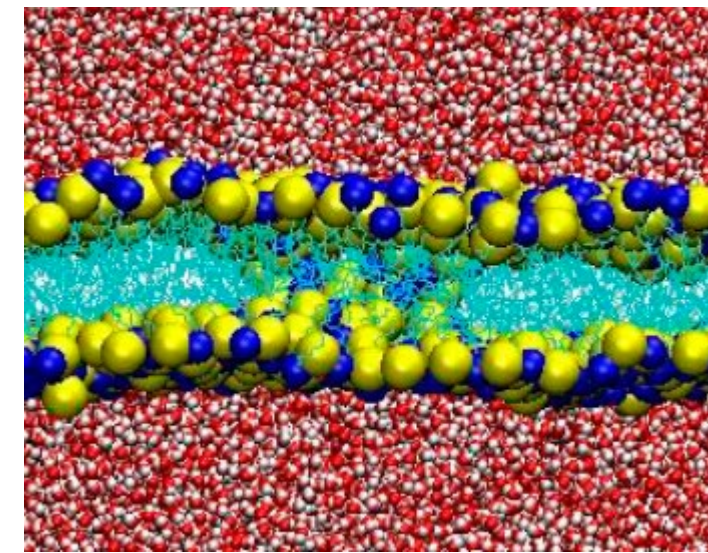
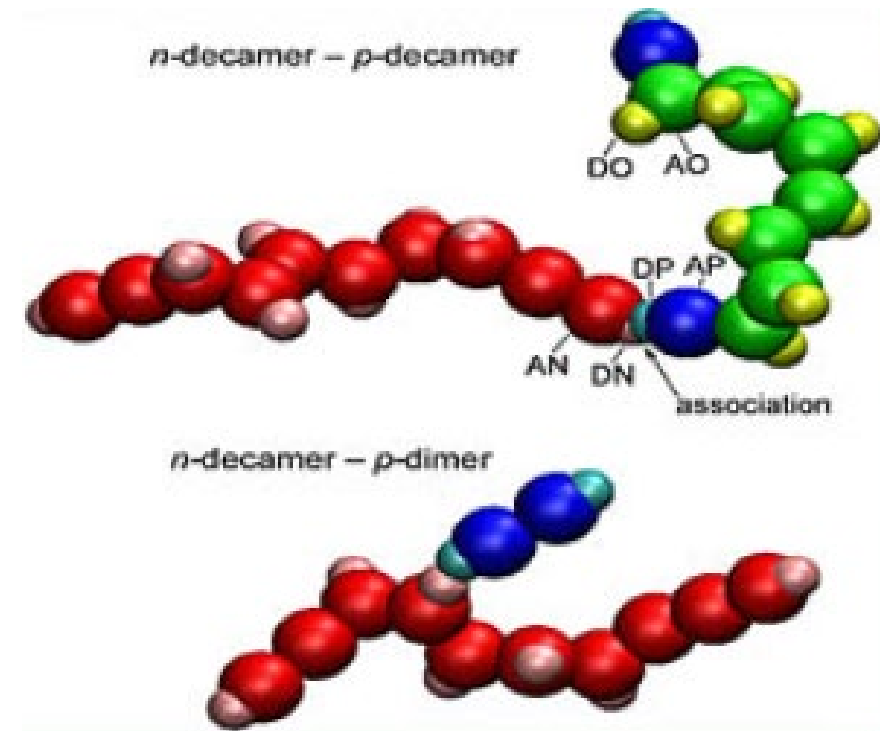
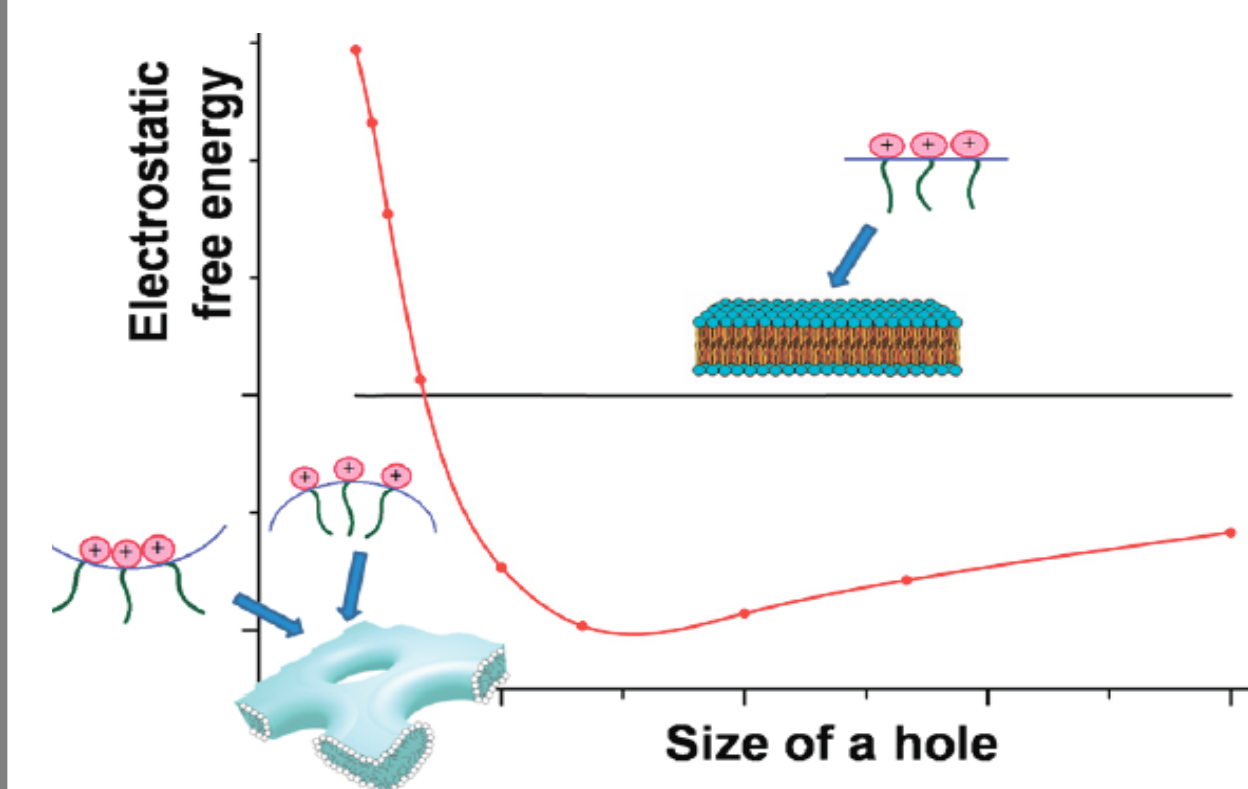
# Soft Matter Group

development of molecular-thermodynamic models, experiment, MD simulation



D.Sc., Prof. Alexey I. Victorov

- thermodynamic modeling of vesicular and branched micellar solutions
- establishment of the mechanism of pore formation in bilayers
- modeling of associating polymers that form gel
- variational field theory of ionic micelles



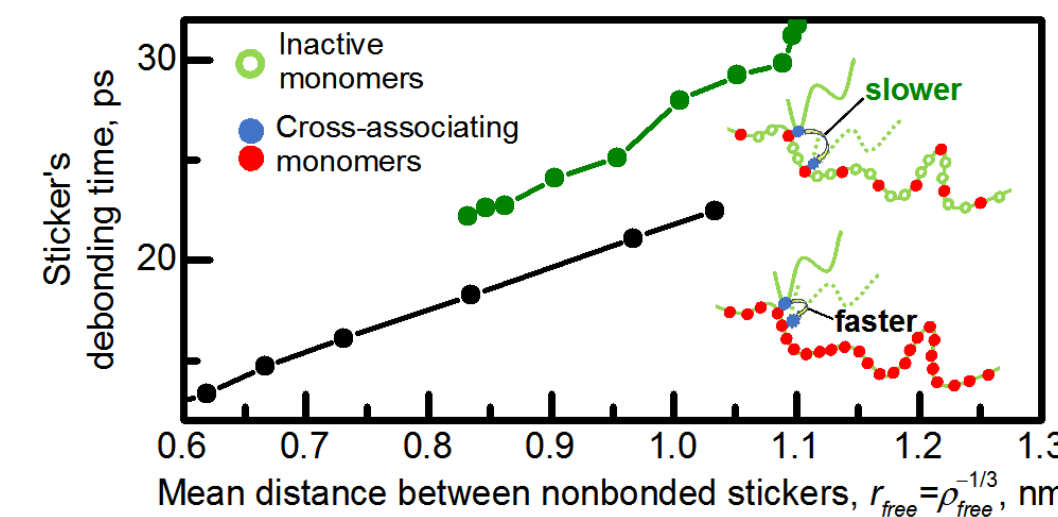
PhD student  
K. Nikiforova



PhD  
I. Gotlib



MSc student  
P. Sorina

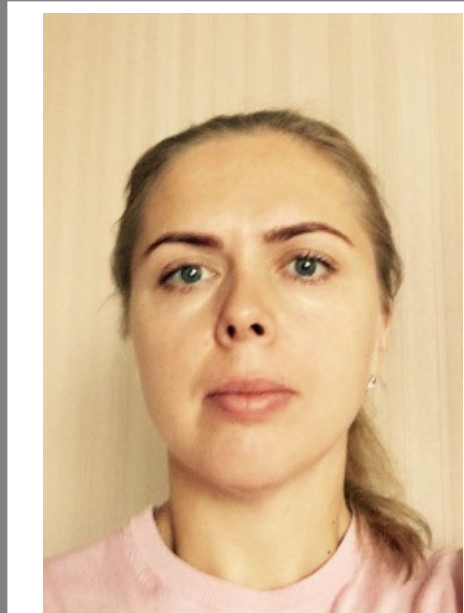


## Publications

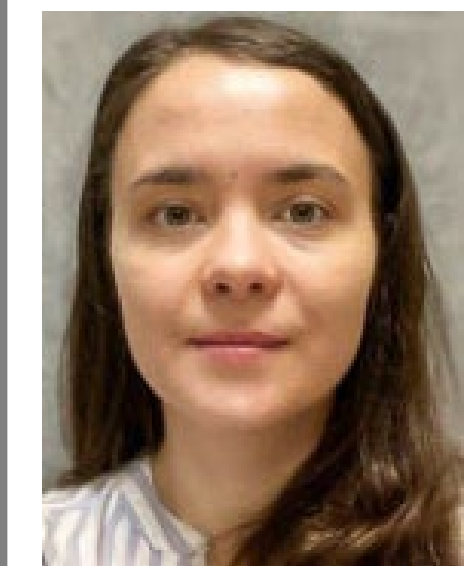
Wiley, J Phys Chem B, Polymer, J Molecular Liquids, Phys Chem Chem Phys, Fluid Phase Equilibria



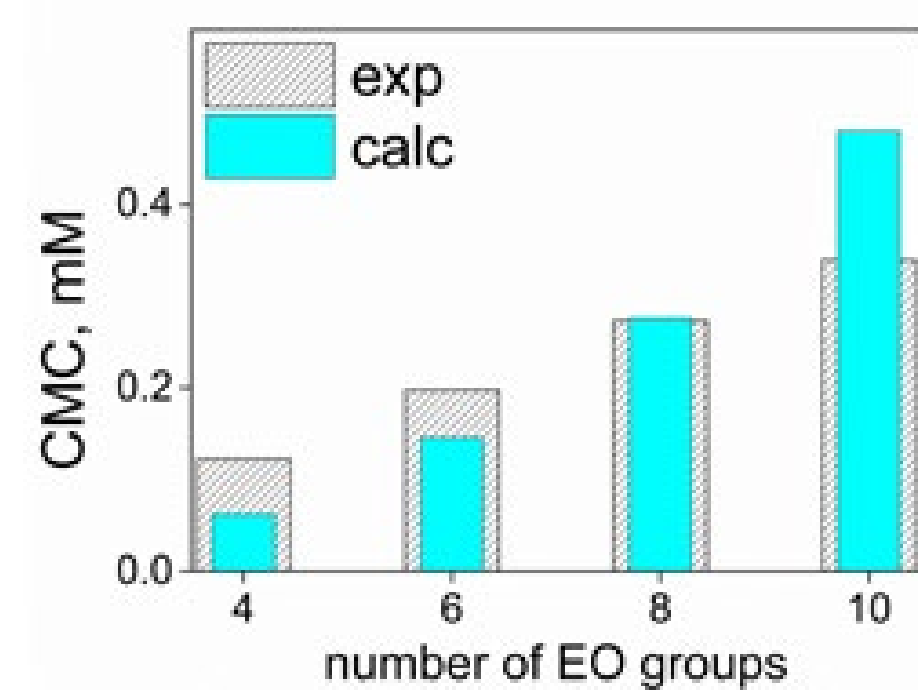
## Micellar systems



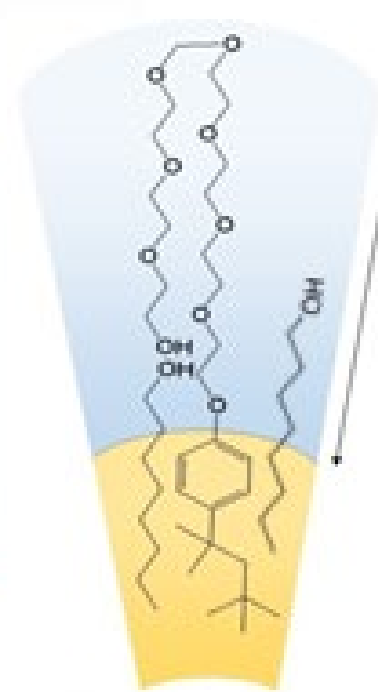
PhD, Assoc. Prof.  
E. Safonova



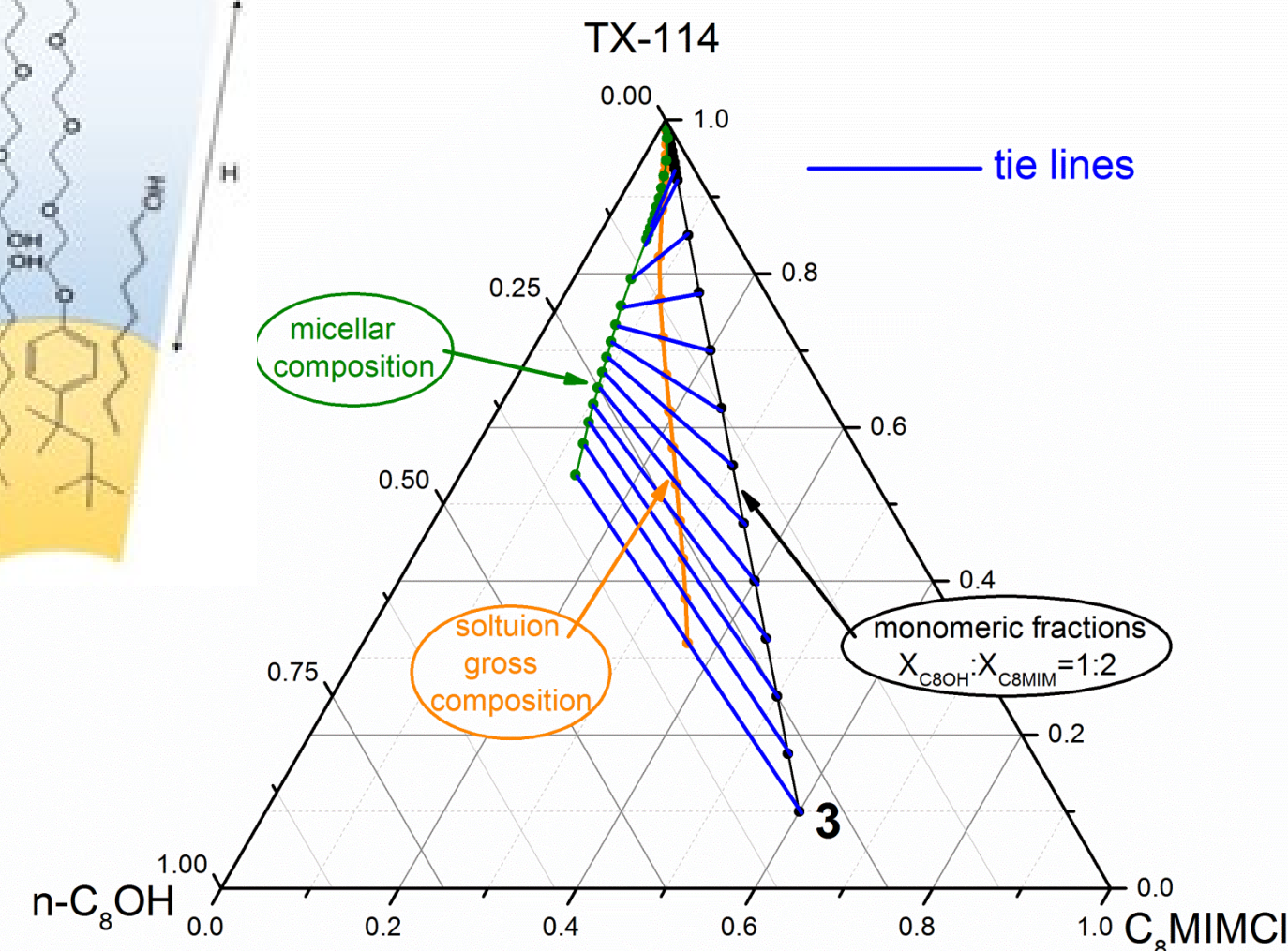
Engineer A. Koneva



## Micellar structure

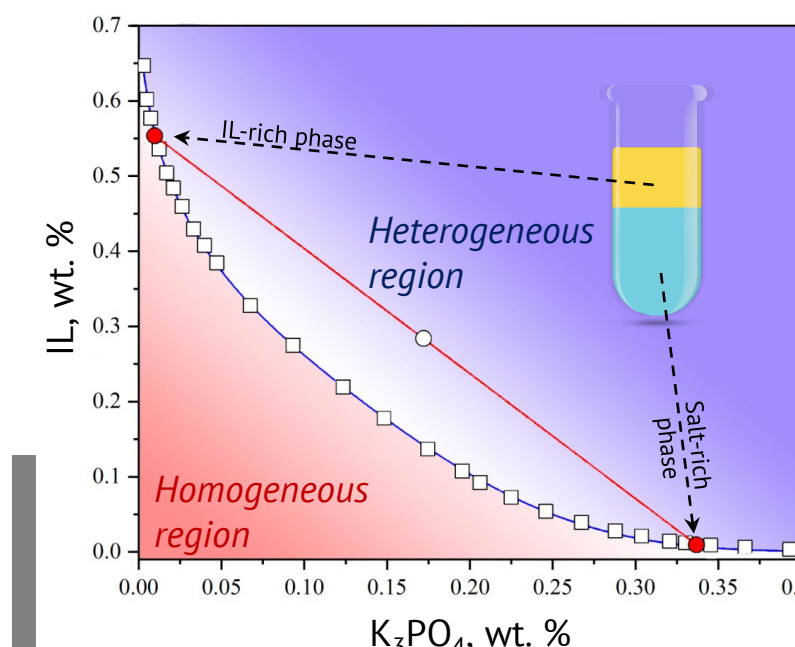


## Micellar extraction



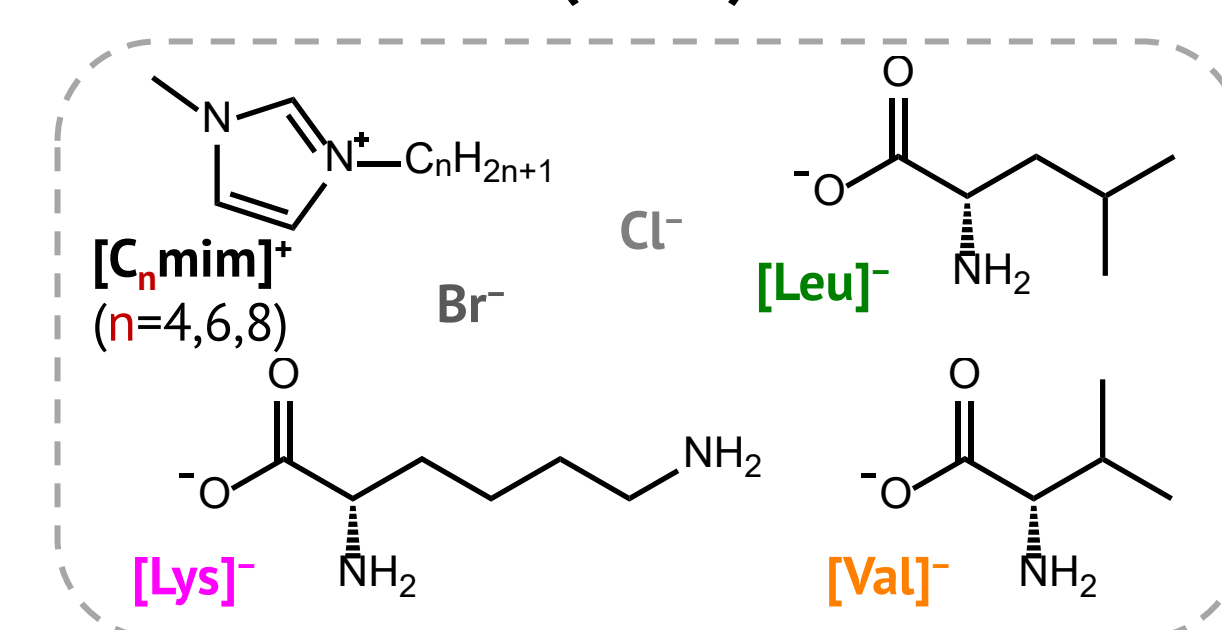
PhD student  
P. Korchak

## Phase behavior of IL-Salt-Water ABSs

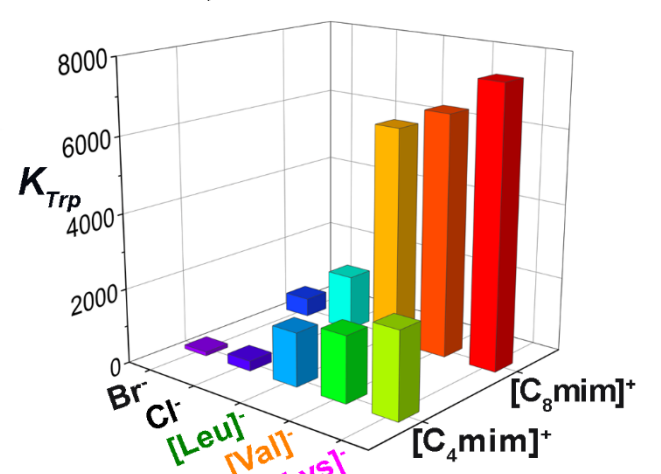
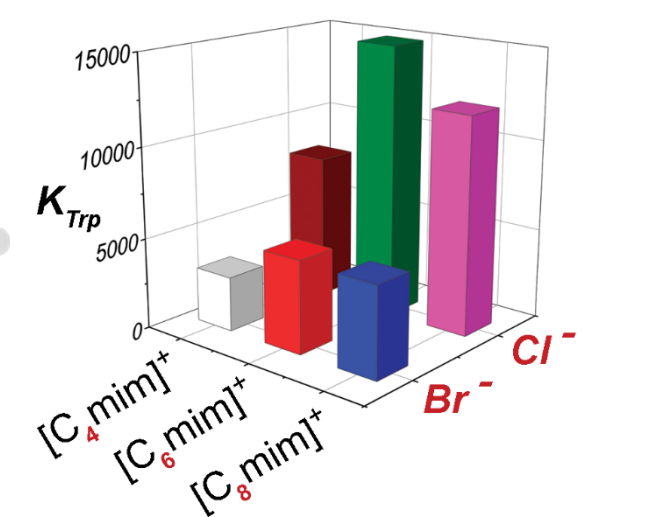


## Amphiphilic compounds for bioextraction

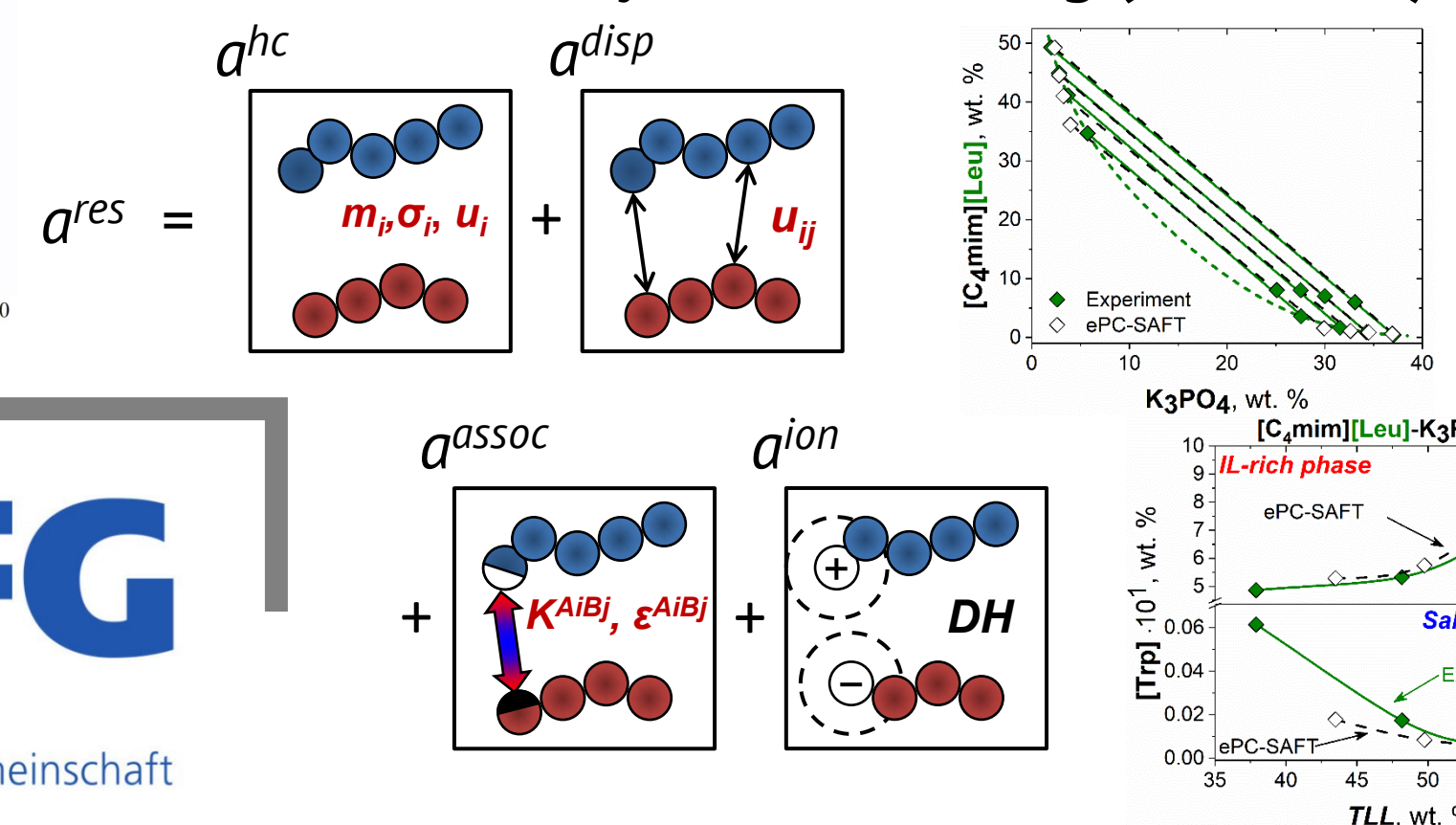
Structurally modified ionic liquids (ILs) as components of aqueous biphasic systems (ABSs)



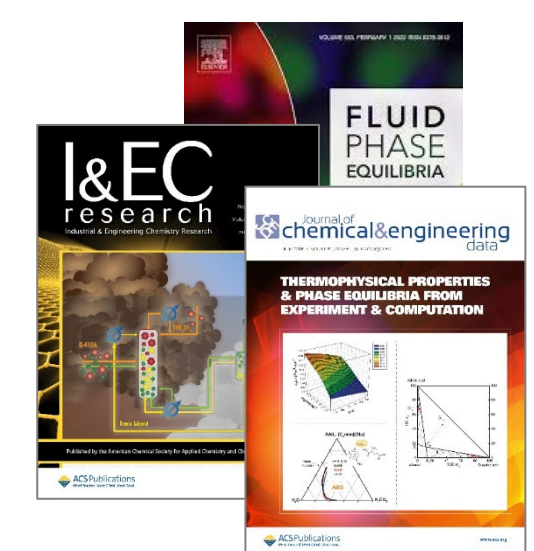
Partitioning of the biocomponent: effect of IL's chemical structure



## Molecular-Thermodynamic Modeling (ePC-SAFT)



## Publications



Publications  
Colloids and Surfaces A: Phys-Chem&Eng Aspects, Applied Magnetic Res, Fluid Phase Equilibria



PhD Yu. Dobrjakov



Financial support  
RUSSIAN FOUNDATION FOR BASIC RESEARCH

